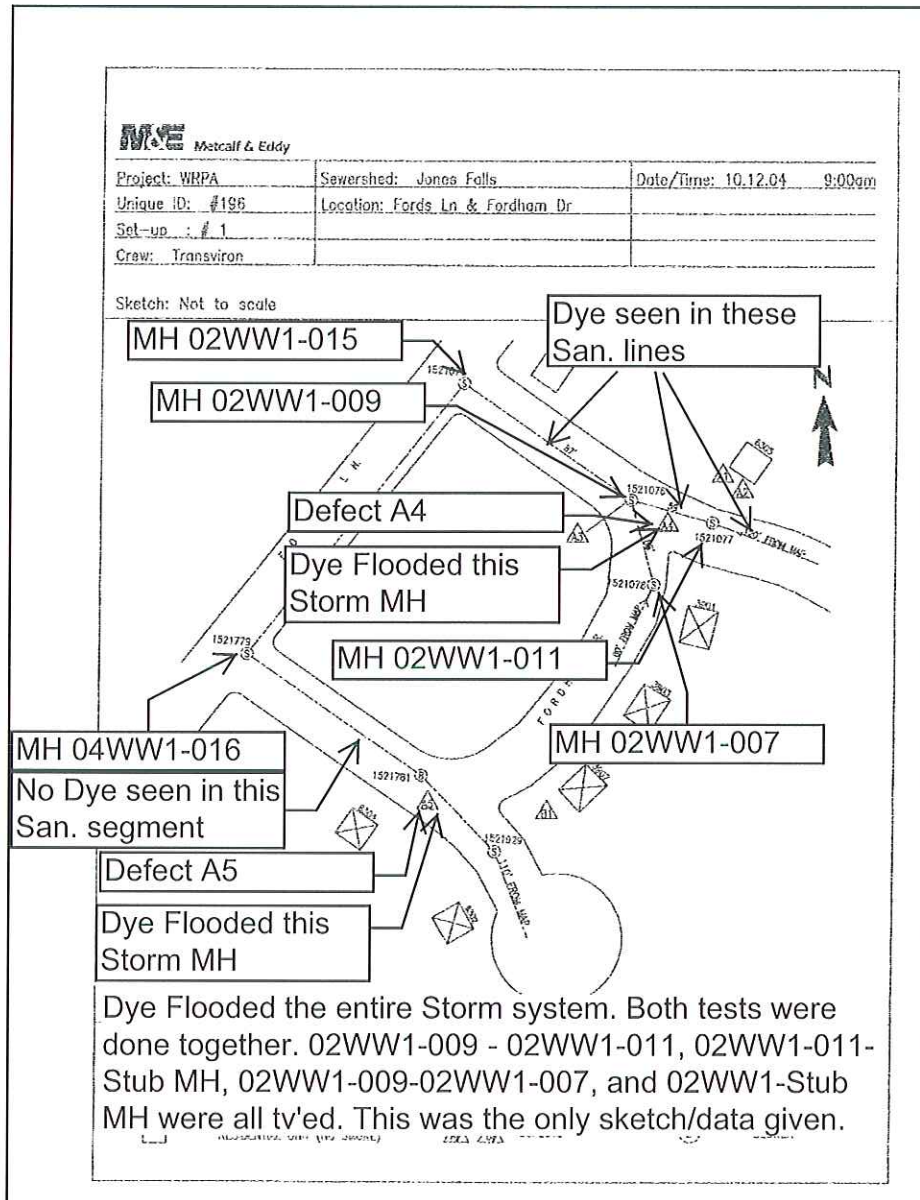




Smoke and Dye-Water Observation Summary

Western Run Pilot Project - Baltimore Maryland

FIELD SKETCH



Sketch No: 196

Filename Path:

X:\Baltimore City\Western Run Pilot Area - Data Files\Smoke Testing\Pictures\Sketches\196.tif

Image Status: Image found and displayed.

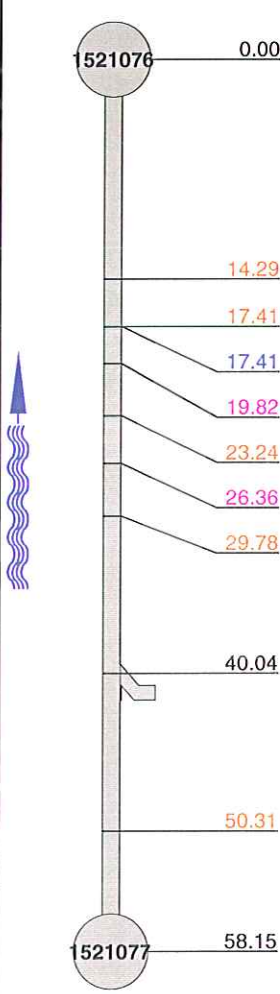
NOTE: Sanitary sewer alignments and connectivity in the Western Run GIS have been revised following smoke testing to reflect updated information from various sources and may no longer match the field sketches shown.

INSPECTION REPORT

DATE: 03/21/2005	WORK ORDER:	WEATHER: SUNNY, DRY	OPERATOR: J.A.M.	SECTION NR: 10	SECTION NAME:
PRESENT:	VEHICLE: TV 175	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE: 2860

STREET: FORDHAM DR. TEST 196 A 4	MAP #1: 1	MH: 1521076
CITY: BALTIMORE	MAP #2:	MH: 1521077
LOCALE: SMALL RESIDENTIAL STREET	TAPE #: JAM 1	TV'D LGTH: 58.15 ft
INSPECT REASON: OTHER	PIPE SIZE: 8 in	
SECTION TYPE: WASTEWATER	MATERIAL: VCP JT LGTH:	
AREA: 01-WR27	LINING: NO RELINING	
	RSRVD:	

REMARK:

1:150	DIST	OBSERVATION	RATE	VCR #	PH
	0.00	inspection begins at downstream manhole, 1521076	0	00:24:56	
	14.29	Infiltration Running at joint at 02 o'clock TO 5 O'CLOCK	3	00:29:49	25a, b
	17.41	Infiltration Running at joint at 03 o'clock	3	00:30:52	26a
	17.41	Infiltration Seeping at joint at 09 o'clock	2	00:30:52	27a
	19.82	Infiltration Gushing at joint at 04 o'clock	4	00:31:19	28a
	23.24	Infiltration Running at joint at 04 o'clock	3	00:31:55	29a
	26.36	Infiltration Gushing at joint at 03 o'clock	4	00:32:28	30a
	29.78	Infiltration Running at joint at 03 o'clock	3	00:33:13	31a
	40.04	service connection at 09 o'clock	0	00:35:25	
	50.31	Infiltration Running at joint at 03 o'clock	3	00:36:27	33a
	58.15	inspection ends at upstream manhole, 1521077	0	00:37:25	

INSPECTION IMAGES

CITY: BALTIMORE	STREET: FORDHAM DR. TEST 196 A 4	DATE: 03/21/2005	SECTION NR: 10	SECTION NAME:
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IMAGE: 25a, TAPE #: JAM 1, 00:29:49
14.29FT, Infiltration Running at joint at 02 o'clock TO 5 O'CLOCK

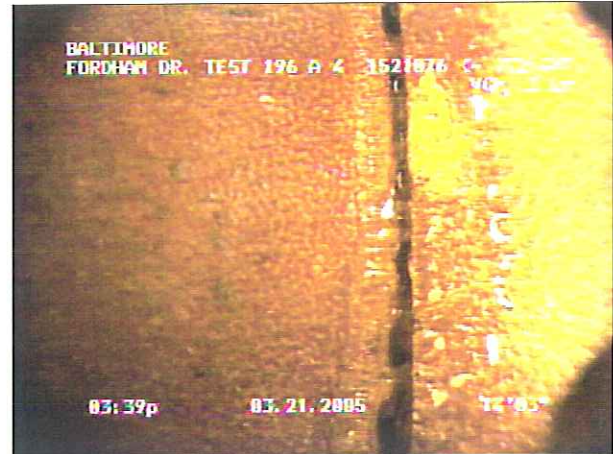


IMAGE: 25b, TAPE #: JAM 1, 00:29:49
14.29FT, Infiltration Running at joint at 02 o'clock TO 5 O'CLOCK



IMAGE: 26a, TAPE #: JAM 1, 00:30:52
17.41FT, Infiltration Running at joint at 03 o'clock



IMAGE: 27a, TAPE #: JAM 1, 00:30:52
17.41FT, Infiltration Seeping at joint at 09 o'clock

INSPECTION IMAGES

CITY: BALTIMORE	STREET: FORDHAM DR. TEST 196 A 4	DATE: 03/21/2005	SECTION NR: 10	SECTION NAME:
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IMAGE: 28a, TAPE #: JAM 1, 00:31:19
19.82FT, Infiltration Gushing at joint at 04 o'clock



IMAGE: 29a, TAPE #: JAM 1, 00:31:55
23.24FT, Infiltration Running at joint at 04 o'clock



IMAGE: 30a, TAPE #: JAM 1, 00:32:28
26.36FT, Infiltration Gushing at joint at 03 o'clock



IMAGE: 31a, TAPE #: JAM 1, 00:33:13
29.78FT, Infiltration Running at joint at 03 o'clock

INSPECTION IMAGES

CITY:
BALTIMORE

STREET:
FORDHAM DR. TEST 196 A 4

DATE:
03/21/2005

SECTION NR:
10

SECTION NAME:



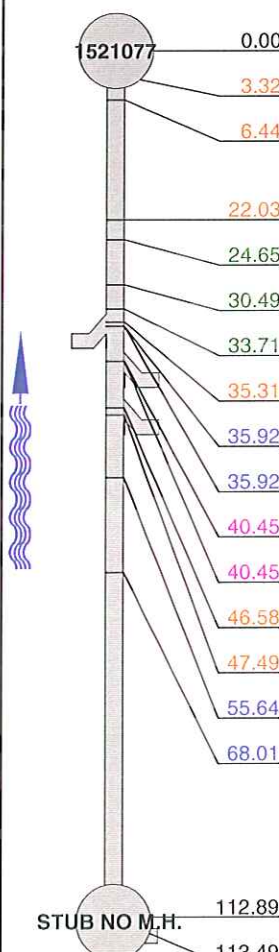
IMAGE: 33a, TAPE #: JAM 1, 00:36:27
50.31FT, Infiltration Running at joint at 03 o'clock

INSPECTION REPORT

DATE: 03/21/2005	WORK ORDER:	WEATHER: SUNNY, DRY	OPERATOR: J.A.M.	SECTION NR: 11	SECTION NAME:
PRESENT:	VEHICLE: TV 175	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE: 4455

STREET: FORDHAM DR. TEST 196 A 4	MAP #1: 1	MH: 1521077
CITY: BALTIMORE	MAP #2:	MH: STUB NO M.H.
LOCALE: SMALL RESIDENTIAL STREET	TAPE #: JAM 1	TV'D LGTH: 113.49 ft

INSPECT REASON: OTHER	PIPE SIZE: 8 in
SECTION TYPE: WASTEWATER	MATERIAL: VCP JT LGTH:
AREA: 01-WR27	NO RELINING
REMARK:	

1:300	DIST	OBSERVATION	RATE	VCR #	PH
	0.00	inspection begins at downstream manhole, 1521077	0	00:37:25	
	3.32	Infiltration Running at joint at 04 o'clock	3	00:38:34	36a
	6.44	Infiltration Running at joint at 04 o'clock	3	00:39:30	37a
	22.03	Infiltration Running at joint at 04 o'clock	3	00:42:57	38a
	24.65	gasket exposed, from 02 to 04 o'clock	1	00:43:32	39a
	30.49	roots light, from 01 to 04 o'clock	1	00:44:32	40a
	33.71	roots light, from 01 to 04 o'clock	1	00:44:59	41a
	35.31	service connection with infiltration running inside at 03 o'clock	3	00:45:35	42a
	35.92	Infiltration Seeping at joint at 03 o'clock	2	00:45:58	43a
	35.92	Infiltration Seeping at joint at 11 o'clock	2	00:45:58	44a
	40.45	break-in-connection with infiltration gushing inside at 10 o'clock		00:46:57	45a
	40.45	break-in-connection with infiltration gushing inside at 10 o'clock		00:47:34	46a
	46.58	service connection with infiltration running inside at 09 o'clock	3	00:48:31	47a
	47.49	Infiltration Running at joint at 04 o'clock	3	00:48:55	48a
	55.64	roots medium, from 12 to 12 o'clock	2	00:49:29	49a
	68.01 S1	roots medium, from 12 to 12 o'clock, START	2	00:50:13	50a
	112.89	service connection at 09 o'clock	0	00:52:08	
	113.49	inspection ends at STUB	0	00:52:25	53a

INSPECTION IMAGES

CITY: BALTIMORE	STREET: FORDHAM DR. TEST 196 A 4	DATE: 03/21/2005	SECTION NR: 11	SECTION NAME:
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IMAGE: 36a, TAPE #: JAM 1, 00:38:34
3.32FT, Infiltration Running at joint at 04 o'clock



IMAGE: 37a, TAPE #: JAM 1, 00:39:30
6.44FT, Infiltration Running at joint at 04 o'clock



IMAGE: 38a, TAPE #: JAM 1, 00:42:57
22.03FT, Infiltration Running at joint at 04 o'clock



IMAGE: 39a, TAPE #: JAM 1, 00:43:32
24.65FT, gasket exposed, from 02 to 04 o'clock

INSPECTION IMAGES

CITY:
BALTIMORE

STREET:
FORDHAM DR. TEST 196 A 4

DATE:
03/21/2005

SECTION NR:
11

SECTION NAME:



IMAGE: 40a, TAPE #: JAM 1, 00:44:32
30.49FT, roots light, from 01 to 04 o'clock



IMAGE: 41a, TAPE #: JAM 1, 00:44:59
33.71FT, roots light, from 01 to 04 o'clock



IMAGE: 42a, TAPE #: JAM 1, 00:45:35
35.31FT, service connection with infiltration running inside at 03 o'clock



IMAGE: 43a, TAPE #: JAM 1, 00:45:58
35.92FT, Infiltration Seeping at joint at 03 o'clock

INSPECTION IMAGES

CITY: BALTIMORE	STREET: FORDHAM DR. TEST 196 A 4	DATE: 03/21/2005	SECTION NR: 11	SECTION NAME:
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IMAGE: 44a, TAPE #: JAM 1, 00:45:58
35.92FT, Infiltration Seeping at joint at 11 o'clock



IMAGE: 45a, TAPE #: JAM 1, 00:46:57
40.45FT, break-in-connection with infiltration gushing inside at 10 o'clock



IMAGE: 46a, TAPE #: JAM 1, 00:47:34
40.45FT, break-in-connection with infiltration gushing inside at 10 o'clock



IMAGE: 47a, TAPE #: JAM 1, 00:48:31
46.58FT, service connection with infiltration running inside at 09 o'clock

INSPECTION IMAGES

CITY: BALTIMORE	STREET: FORDHAM DR. TEST 196 A 4	DATE: 03/21/2005	SECTION NR: 11	SECTION NAME:
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IMAGE: 48a, TAPE #: JAM 1, 00:48:55
47.49FT, Infiltration Running at joint at 04 o'clock



IMAGE: 49a, TAPE #: JAM 1, 00:49:29
55.64FT, roots medium, from 12 to 12 o'clock



IMAGE: 50a, TAPE #: JAM 1, 00:50:13
68.01FT, roots medium, from 12 to 12 o'clock, START



IMAGE: 53a, TAPE #: JAM 1, 00:52:25
113.49FT, inspection ends at STUB

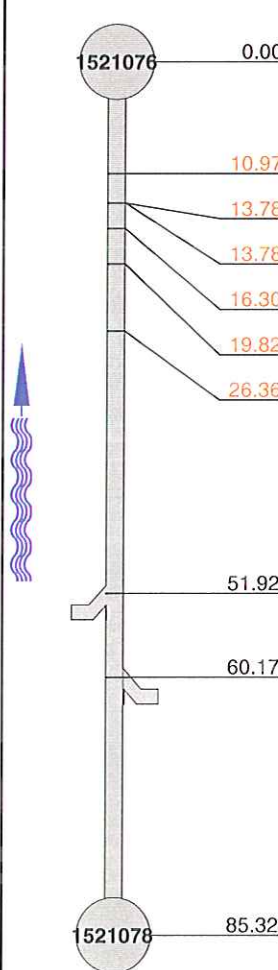
INSPECTION REPORT

DATE: 03/21/2005	WORK ORDER:	WEATHER: SUNNY, DRY	OPERATOR: J.A.M.	SECTION NR: 12	SECTION NAME:
PRESENT:	VEHICLE: TV 175	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE: 1920

STREET: FORDHAM DR. TEST 196 A 4	MAP #1: 1	MH: 1521076
CITY: BALTIMORE	MAP #2:	MH: 1521078
LOCALE: SMALL RESIDENTIAL STREET	TAPE #: JAM 1	TV'D LGTH: 85.32 ft

INSPECT REASON: OTHER	PIPE SIZE: 8 in
SECTION TYPE: WASTEWATER	MATERIAL: VCP JT LGTH:
AREA: 01-WR27	NO RELINING
RSRVD:	

REMARK:

1:225	DIST	OBSERVATION	RATE	VCR #	PH
	0.00	inspection begins at downstream manhole, 1521076	0	00:52:25	
	10.97	Infiltration Running at joint at 09 o'clock	3	00:54:00	55a
	13.78	Infiltration Running at joint at 02 o'clock	3	00:54:23	56a
	13.78	Infiltration Running at joint at 09 o'clock	3	00:54:40	57a
	16.30	Infiltration Running at joint at 12 o'clock to 12 o'clock	3	00:55:03	58a
	19.82	Infiltration Running at joint at 03 o'clock	3	00:55:26	59a
	26.36	Infiltration Running at joint at 09 o'clock	3	00:56:16	60a
	51.92	service connection capped at 03 o'clock	0	00:57:39	
	60.17	service connection capped at 09 o'clock	0	00:58:09	
	85.32	inspection ends at upstream manhole, 1521078	0	00:59:32	

INSPECTION IMAGES

CITY: BALTIMORE	STREET: FORDHAM DR. TEST 196 A 4	DATE: 03/21/2005	SECTION NR: 12	SECTION NAME:
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IMAGE: 55a, TAPE #: JAM 1, 00:54:00
10.97FT, Infiltration Running at joint at 09 o'clock



IMAGE: 56a, TAPE #: JAM 1, 00:54:23
13.78FT, Infiltration Running at joint at 02 o'clock



IMAGE: 57a, TAPE #: JAM 1, 00:54:40
13.78FT, Infiltration Running at joint at 09 o'clock



IMAGE: 58a, TAPE #: JAM 1, 00:55:03
16.3FT, Infiltration Running at joint at 12 o'clock to 12 o'clock

INSPECTION IMAGES

CITY: BALTIMORE	STREET: FORDHAM DR. TEST 196 A 4	DATE: 03/21/2005	SECTION NR: 12	SECTION NAME:
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IMAGE: 59a, TAPE #: JAM 1, 00:55:26
19.82FT, Infiltration Running at joint at 03 o'clock



IMAGE: 60a, TAPE #: JAM 1, 00:56:16
26.36FT, Infiltration Running at joint at 09 o'clock



Savin Engineers, P.C.
3 Campus Drive
Pleasantville, NY 10570
Tel: (914) 769-3200, Fax: (914) 747-6686

INSPECTION REPORT

DATE: 03/21/2005	WORK ORDER:	WEATHER: SUNNY, DRY	OPERATOR: J.A.M.	SECTION NR: 13	SECTION NAME:
PRESENT:	VEHICLE: TV 175	CAMERA: PAN/TILT	PRESET:	CLEANED: NO	RATE: 330

STREET: FORDHAM DR. TEST 196 A 4	MAP #1: 1	MH: 1521078
CITY: BALTIMORE	MAP #2:	MH: STUB NO M.H.
LOCALE: SMALL RESIDENTIAL STREET	TAPE #: JAM 1	TV'D LGTH: 25.35 ft

INSPECT REASON: OTHER	PIPE SIZE: 8 in
SECTION TYPE: WASTEWATER	MATERIAL: VCP JT LGTH:
AREA: 01-WR27	LINING: NO RELINING
RSRVD:	

REMARK:

1:75 DIST OBSERVATION RATE VCR # PH

1521078	0.00	inspection begins at downstream manhole, 1521078	0	00:59:32	
	5.43 S1	roots heavy, from 12 to 12 o'clock, START	3	01:00:36	65a
	25.35	camera blocked, inspection abandoned, HEAVY ROOTS	0	01:07:07	66a

INSPECTION IMAGES

CITY: BALTIMORE	STREET: FORDHAM DR. TEST 196 A 4	DATE: 03/21/2005	SECTION NR: 13	SECTION NAME:
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IMAGE: 65a, TAPE #: JAM 1, 01:00:36
5.43FT, roots heavy, from 12 to 12 o'clock, START

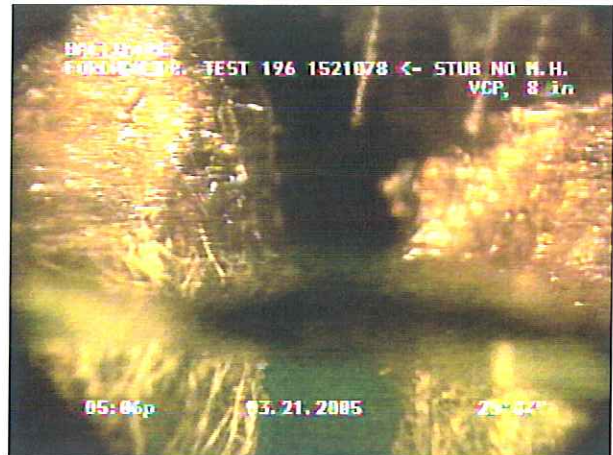


IMAGE: 66a, TAPE #: JAM 1, 01:07:07
25.35FT, camera blocked, inspection abandoned, HEAVY ROOTS